

IN THE CLAIMS

Please cancel Claims 1-5, 13, 14 and 33-37.

Please amend the claims as follows (all pending claims are reproduced for the Examiner's convenience):

6. (Amended) The method of claim 38 [1], wherein a human hematopoietic cell composition enriched in human T-cells is cultured.

7. (Amended) The method of claim 38 [1], wherein the culture medium is continuously perfused at a ramped rate proportional to the lactate concentration and/or cell density to replace the culture medium without substantial dilution of the cell density.

8. (Amended) The method of claim 38 [1], wherein the culture medium is replaced at rate of from 50% to 100% daily replacement for a cell density of from 1×10^4 to 1×10^7 cells per ml of culture.

9. (Amended) The method of claim 38 [1], wherein the culture medium is replaced periodically or continuously.

10. (Amended) The method of claim 38 [1], wherein the cells are cultured for at least 2 days.

11. (Amended) The method of claim 38 [1], wherein the culture medium contains at least 1 growth factor which stimulates the proliferation of the cells.

12. (Amended) The method of claim 38 [1], wherein the cultured lineage committed human cells have enhanced replicative potential.

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38. A method for obtaining lineage committed human cells with enhanced biological function comprising culturing lineage committed human cells under physiologically acceptable liquid culture conditions, said conditions including replacement of the liquid culture medium at a rate and for a time sufficient to obtain human lineage committed cells

with enhanced biological function.

39. The method of claim 38, wherein the biological function enhanced in the cultured cells comprises at least one member selected from the group consisting of secretion of substances, cell-cell communication, receptor expression on the cell surface, cytolysis, antigen presentation, antigen processing, ability to home *in vivo* to sites for function, and the ability to proliferate leading to development/regeneration of tissue similar to naturally occurring structure/function.

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40. The method of claim 38, wherein the biological function enhanced in the isolated lineage committed human cells comprises increased release of cytokines.

41. The method of claim 38, wherein the biological function enhanced in the isolated lineage committed human cells comprises increased cytolytic activity.

42. The method of claim 38, wherein the human lineage committed cells comprise hematopoietic cells, mesenchymal cells, keratinocytes, fibroblasts, hepatocytes, neural cells, epithelial cells, lymphocytes, osteoblasts or human osteoclasts.

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43. (Amended) The method of claim 38, wherein the human lineage committed cells comprise [stem cells,] hematopoietic progenitor cells, mature myeloid cells, or stromal cells.

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44. The method of claim 38, wherein the human lineage committed cells comprise dendritic cells or non-myeloid mature cells which are other than stromal cells.

45. The method of claim 38, wherein the human lineage committed cells comprise T-cells, dendritic cells or chondrocytes.

Please add the following claims:

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~~46.~~ The method of claim 38, wherein said enhanced biological function comprises enhanced proliferative potential.

~~47.~~ The method of claim 38, wherein the culture medium is replaced at a rate of at